

MAINVIEW[®] for IP Customization Guide

Version 2.1

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Contacting BMC Software

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Customer Support

You can obtain technical support by using the Support page on the BMC Software Web site or by contacting Customer Support by telephone or e-mail. To expedite your inquiry, please see “Before Contacting BMC Software.”

Support Web Site

You can obtain technical support from BMC Software 24 hours a day, 7 days a week at <http://www.bmc.com/support.html>. From this Web site, you can

- read overviews about support services and programs that BMC Software offers
- find the most current information about BMC Software products
- search a database for problems similar to yours and possible solutions
- order or download product documentation
- report a problem or ask a question
- subscribe to receive e-mail notices when new product versions are released
- find worldwide BMC Software support center locations and contact information, including e-mail addresses, fax numbers, and telephone numbers

Support by Telephone or E-mail

In the United States and Canada, if you need technical support and do not have access to the Web, call 800 537 1813. Outside the United States and Canada, please contact your local support center for assistance. To find telephone and e-mail contact information for the BMC Software support center that services your location, refer to the Contact Customer Support section of the Support page on the BMC Software Web site at www.bmc.com/support.html.

Before Contacting BMC Software

Before you contact BMC Software, have the following information available so that Customer Support can begin working on your problem immediately:

- product information
 - product name
 - product version (release number)
 - license number and password (trial or permanent)
- operating system and environment information
 - machine type
 - operating system type, version, and service pack or other maintenance level such as PUT or PTF
 - system hardware configuration
 - serial numbers
 - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the problem
- commands and options that you used
- messages received (and the time and date that you received them)
 - product error messages
 - messages from the operating system, such as `file system full`
 - messages from related software

Contents

| | |
|---------------------------------|--|
| About This Book | xi |
| Summary of Changes | xvii |
| Chapter 1 | Installation Overview |
| | Installation System 1-2 |
| | Installation Checklist 1-3 |
| | Combining Checklists for Multiple Products. 1-3 |
| | Products 1-3 |
| | Preparation Steps 1-4 |
| | Installation Steps 1-5 |
| | Customization Steps 1-6 |
| | Where To Go From Here 1-7 |
| Chapter 2 | Installation Preparation |
| | Overview 2-2 |
| | Required Materials 2-2 |
| | Books and Notices 2-2 |
| | Checklists 2-3 |
| | Worksheets 2-3 |
| | Prerequisites 2-4 |
| | OSA Requirements 2-4 |
| | System Requirements 2-4 |
| | RACF Requirements 2-5 |
| | Product Authorization 2-5 |

| | | |
|------------------|---|------|
| Chapter 3 | Installation Customization | |
| | Overview | 3-2 |
| | AutoCustomization | 3-2 |
| | Product Customization Steps | 3-2 |
| | Executing TAC Steps | 3-4 |
| | Manual Customization | 3-5 |
| | Task 1—Customizing the MAINVIEW Online Environment | 3-6 |
| | Task 2—Customizing the MAINVIEW for IP Online Environment | 3-7 |
| | Task 2.A—Creating the MAINVIEW for IP Product Address Space | 3-8 |
| | Task 2.B—Creating Input Parameters | 3-10 |
| | Task 2.C—Creating SNMP Parameters | 3-13 |
| | Task 2.D—Creating the Password Library | 3-15 |
| | Task 2.E—Creating the History Data Set | 3-16 |
| | Task 2.F—Editing the Batch Jobs | 3-19 |
| Chapter 4 | Additional Customization | |
| | Customizing MAINVIEW for IP to Collect OSA Data | 4-2 |
| | Setup Requirements | 4-2 |
| | Customization Tasks | 4-2 |
| | Implementing FTP Servers Data Collection | 4-3 |
| Chapter 5 | Startup Parameters | |
| | Conventions | 5-2 |
| | Parameters | 5-2 |
| | DNR—Enable Domain Name Resolution Function | 5-2 |
| | FTPXBUFFS—Allocate FTP Exit Control Blocks | 5-2 |
| | NODNR—Disable Domain Name Resolution Function | 5-3 |
| | NOXSUPP—No Exit Suppression | 5-3 |
| | RESPJOB—Collect Jobname Response Time Data | 5-3 |
| | RESPPORT—Collect Port Response Time Data | 5-3 |
| | SMFRECC—Set Type of SMF Record | 5-3 |
| | XSUPP—Exit Suppression | 5-4 |
| | xxxxINT—Set SMF Recording Interval | 5-4 |
| Index | | |

Figures

| | | |
|------------|---|------|
| Figure 3-1 | First Sample Product Customization Steps Panel | 3-3 |
| Figure 3-2 | Second Sample Product Customization Steps Panel | 3-3 |
| Figure 3-3 | Sample BBSAMP Member TACPAS | 3-8 |
| Figure 3-4 | Sample BBSAMP Member TACPRM | 3-11 |
| Figure 3-5 | Sample BBSAMP Member TACSNM | 3-14 |
| Figure 3-6 | Sample BBSAMP Member TACLIB | 3-15 |
| Figure 3-7 | Sample BBSAMP Member TACHIS | 3-16 |
| Figure 3-8 | Sample BBPARM Member TACTIR00 | 3-18 |
| Figure 3-9 | Sample BBSAMP Member TACSEC | 3-19 |

Tables

| | | |
|-----------|--|-----|
| Table 2-1 | Installation and Customization Materials | 2-2 |
| Table 3-1 | TAC AutoCustomization Steps | 3-4 |
| Table 3-2 | Summary of Manual Customization Process | 3-5 |
| Table 4-1 | OSA Customization Tasks | 4-2 |

About This Book

This book contains detailed information about MAINVIEW® for IP and is intended for network administrators, system administrators, and system programmers.

To use this book, you should be familiar with the following items:

- Multiple Virtual Storage (MVS) systems, job control language (JCL), and the Interactive System Productivity Facility (ISPF)
- your client and host operating systems

For example, you should know how to respond to ISPF panels and how to perform common actions in a window environment (such as choosing menu items and resizing windows).

How This Book Is Organized

This book is organized as follows. In addition, an index appears at the end of the book.

| Chapter | Description |
|---|---|
| Chapter 1, "Installation Overview" | provides an overview of the installation process |
| Chapter 2, "Installation Preparation" | provides information about preparing to install MAINVIEW for IP in your environment |
| Chapter 3, "Installation Customization" | describes how to customize MAINVIEW for IP for operation in your environment |
| Chapter 4, "Additional Customization" | provides more information about customizing MAINVIEW for IP for operation in your environment |
| Chapter 5, "Startup Parameters" | describes startup parameters that you can use with MAINVIEW for IP |

Related Documentation

BMC Software products are supported by several types of documentation:

- online and printed books
- online Help
- release notes and other notices

In addition to this book and the online Help, you can find useful information in the following publications:

| Category | Document | Description |
|------------------------|--|---|
| installation documents | <i>Implementing Security for MAINVIEW Products</i> | describes how to implement MAINVIEW security with your external security manager to protect MAINVIEW product resources from user access |
| | <i>MAINVIEW Common Customization Guide</i> | provides instructions for manually customizing the MAINVIEW environment for your products |
| | <i>MAINVIEW Installation Requirements Guide</i> | provides product-specific information such as software and storage requirements, product libraries, and FMIDs |
| | <i>OS/390 and z/OS Installer Guide</i> | provides instructions for using the installation system, and describes the Product Authorization utility and AutoCustomization |

| Category | Document | Description |
|------------------------|--|---|
| core documents | <i>MAINVIEW Administration Guide</i> | provides information about MAINVIEW operations, targets, single-system image contexts, MAINVIEW Alarm Manager, data sets, view customization, and diagnostic facilities |
| | <i>MAINVIEW Alarm Manager User Guide</i> | describes how to create and install alarm definitions that indicate when exceptions occur in a sysplex |
| | <i>MAINVIEW Alternate Access Implementation and User Guide</i> | explains how to configure, start, and stop VTAM and EXCP AutoLogon sessions to access MAINVIEW products without an active TSO subsystem |
| | <i>MAINVIEW for IP User Guide</i> | provides information about product features, product functions, and how to use MAINVIEW for IP |
| | <i>MAINVIEW Quick Reference</i> | provides a quick reference for MAINVIEW terminal sessions, logs, data sets, targets, contexts, windows mode, and full-screen mode and describes the functions, syntax, and parameters of the commands that are used to manage the MAINVIEW window environment |
| | <i>Using MAINVIEW</i> | provides information about working with MAINVIEW products in windows mode and full-screen mode |
| supplemental documents | release notes, flashes, technical bulletins | provide current information about MAINVIEW for IP |

Online and Printed Books

The books that accompany BMC Software products are available in online format and printed format. If you are a Windows or Unix user, you can view online books with Acrobat Reader from Adobe Systems. The reader is provided at no cost, as explained in “To Access Online Books.” You can also obtain additional printed books from BMC Software, as explained in “To Request Additional Printed Books.”

To Access Online Books

Online books are formatted as Portable Document Format (PDF) files. You can view them, print them, or copy them to your computer by using Acrobat Reader 3.0 or later. You can access online books from the documentation compact disc (CD) that accompanies your product or from the World Wide Web.

In some cases, installation of Acrobat Reader and downloading the online books is an optional part of the product-installation process. For information about downloading the free reader from the Web, go to the Adobe Systems site at <http://www.adobe.com>.

To view any online book that BMC Software offers, visit the support page of the BMC Software Web site at <http://www.bmc.com/support.html>. Log on and select a product to access the related documentation. (To log on, first-time users can request a user name and password by registering at the support page or by contacting a BMC Software sales representative.)

To Request Additional Printed Books

BMC Software provides printed books with your product order. To request additional books, go to <http://www.bmc.com/support.html>.

Online Help

MAINVIEW for IP includes online Help. In the MAINVIEW for IP ISPF interface, you can access Help by pressing **F1** from any ISPF panel.

Release Notes and Other Notices

Printed release notes accompany each BMC Software product. Release notes provide current information such as

- updates to the installation instructions
- last-minute product information

In addition, BMC Software sometimes provides updated product information between releases (in the form of a flash or a technical bulletin, for example). The latest versions of the release notes and other notices are available on the Web at <http://www.bmc.com/support.html>.

Conventions

This book uses the following general conventions:

| Item | Example |
|---|--|
| information that you are instructed to type | Type SEARCH DB in the designated field. |
| specific (standard) keyboard key names | Press Enter . |
| field names, text on a panel | Type the appropriate entry in the Command field. |
| directories, file names, Web addresses | The BMC Software home page is at www.bmc.com . |
| nonspecific key names, option names | Use the HELP function key. KEEPDICTIONARY option |
| MVS calls, commands, control statements, keywords, parameters, reserved words | Use the SEARCH command to find a particular object. |
| code examples, syntax statements, system messages, screen text | //STEPLIB DD The table <i>table_name</i> is not available. |
| emphasized words, new terms, variables | The instructions that you give to the software are called <i>commands</i> . In this message, the variable <i>file_name</i> represents the file that caused the error. |

This book uses the following types of special text:

Note: Notes contain important information that you should consider.

Warning! Warnings alert you to situations that could cause problems, such as loss of data, if you do not follow instructions carefully.

Tip: Tips contain useful information that may improve product performance or that may make procedures easier to follow.

Summary of Changes

This summary of changes includes changes to the functionality of the product, enhancements to the product, and any major changes to the documentation. The summary of changes is listed by release date.

Revision bars are used in the manual to note changes that clarify or correct existing information or that provide new information related to product changes. Revision bars are not used to note editorial and formatting changes or typographical errors that have been corrected unless these updates significantly affect the use of the information.

Version 2.1.00

August 15, 2002

The following features have been added to MAINVIEW for IP and to this book:

- support for z/OS 1.3
- File Transfer Protocol exit implementation
- Open Systems Adapter requirements
- packet trace data definition statement in *hilevel.BBSAMP(TACPAS)*

Additionally, a list of startup parameters has been added to the customization guide.

The MAINVIEW for IP documentation library now includes the *MAINVIEW for IP Customization Guide*. The information in the customization guide was formerly available in the *MAINVIEW for IP Reference Manual*.

The customization guide provides instructions for customizing MAINVIEW for IP when the product has been installed by using the OS/390 and z/OS Installer.

Chapter 1 Installation Overview

This chapter provides an overview of the installation process. This chapter contains the following sections:

| | |
|---|-----|
| Installation System | 1-2 |
| Installation Checklist | 1-3 |
| Combining Checklists for Multiple Products. | 1-3 |
| Products | 1-3 |
| Preparation Steps | 1-4 |
| Installation Steps | 1-5 |
| Customization Steps. | 1-6 |
| Where To Go From Here | 1-7 |

Installation System

MAINVIEW® for IP can be installed by using the OS/390 and z/OS Installer. The installation system provides the combined benefits of IEBCOPY and System Modification Program Extended (SMP/E).

- IEBCOPY loads all the required elements from tape but does not create a change management environment.
- SMP/E performs the actions of IEBCOPY and implements a change management environment.

The installation system combines tape images, copies files to your system (IEBCOPY or SMP/E), and creates installation job control language (JCL). The installation system delivers the speed and simplicity of IEBCOPY *and* the control and flexibility of SMP/E, enabling a fast customization path for customers who require a rapid installation and the ability to view each customization step.

The installation system provides the following options for installing your BMC Software products:

- Standard installation:
 - IEBCOPY unload (required)
 - SMP/E library creation (optional)
- Full SMP/E installation

The installation system provides a consistent distribution, installation, customization, and maintenance process for installing BMC Software solutions on OS/390 and z/OS platforms. For more information about installing MAINVIEW for IP by using the OS/390 and z/OS Installer, see the *OS/390 and z/OS Installer Guide*. For information about customizing MAINVIEW for IP when you have used the OS/390 and z/OS Installer, see Chapter 3, “Installation Customization.”

Installation Checklist

The installation checklist outlines the steps that you must perform to install and run your product (or products). The checklist summarizes what you must do and refers you to detailed instructions.

The checklist is divided into the following sections:

- “Preparation Steps” on page 1-4
- “Installation Steps” on page 1-5
- “Customization Steps” on page 1-6

When you have completed the installation, see “Where To Go From Here” on page 1-7.

Combining Checklists for Multiple Products

The checklist is for the product that is listed in “Products” on page 1-3. You can use the Installation Checklist Generator to create a checklist that integrates the checklist in this book with checklists in other product books.

When you use the checklist generator, you select the products that you are going to install and the checklist generator produces an integrated checklist. The integrated checklist outlines all steps that you must complete for successful installation of all your products.

The checklist generator is available on your documentation CD. For information about running the checklist generator, see the *OS/390 and z/OS Installer Guide*.

Note: The Installation Checklist Generator runs with Microsoft Internet Explorer 4.01 and later and Netscape Navigator 4.08 through 4.78, inclusive.

Products

This checklist pertains to the following BMC Software products:

- MAINVIEW for IP version 2.1.00

Preparation Steps

The following preparation steps help you prepare for installation of your products. The steps describe the tasks that you must complete and the items that you must assemble before you start installation.

| ✓ | Step | Task | Description | Reference |
|---|------|---|---|--|
| | 1 | assemble needed materials | Gather all installation tapes, tape cover letters, product release notes, product technical bulletins, the <i>OS/390 and z/OS Installer Guide</i> , customization guides, planning guides, and so on. | your product shipment and the support page BMC Software Web site |
| | 2 | review product release notes | The release notes describe enhancements, changes, and fixes for a product and contain important information you need to know. | your product shipment |
| | 3 | review technical bulletins and flashes | Technical bulletins and flashes contain information about problems that have been identified since the product was last released. | your product shipment and the support page BMC Software Web site |
| | 4 | obtain product passwords | Contact BMC Software to obtain the passwords for your products. | <i>OS/390 and z/OS Installer Guide</i> , "BMC Software Product Authorization" appendix password request form or cover letter |
| | 5 | read prerequisites | Prerequisites state the operating system version requirements, space requirements, authorization requirements, and so on. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter |
| | 6 | read installation considerations | Installation considerations describe information about running with other products and product implementation. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter |
| | 7 | obtain authorization to complete the installation | Reading the installation tapes or creating the installation data sets might require RACF authorization. | contact your system administrator, security administrator, or other administrator |
| | 8 | obtain authorization to complete customization | Customization of some products might require APF authorization. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter |
| | 9 | complete planning, testing, and setup | This information is required before product installation and for migration from another product. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter |

Installation Steps

The following installation steps help you run the BMC Software OS/390 and z/OS Installer to successfully complete installation for all of your OS/390 and z/OS BMC Software products. The installation system combines tape images, copies files to your system (Standard or SMP/E), creates installation JCL, and applies maintenance to installed products.

| ✓ | Step | Task | Description | Reference |
|---|------|---|--|---|
| | 1 | understand the installation system | The installation system has features and functions that you should be familiar with before using it. | <i>OS/390 and z/OS Installer Guide</i> , "Introduction" chapter |
| | 2 | unload the base installation libraries from the installation tape | The base installation libraries contain the installation system. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 3 | create the customized installation libraries | The customized installation libraries specify a site-specific installation environment. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 4 | start the installation system | The installation system automates many installation steps. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 5 | specify repository information | The repository profile contains installation and customization options that are used when performing subsequent installations. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 6 | specify user options | The user options determine how the installation system runs and specify where installation JCL is stored. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 7 | select the products to install | The installation system generates all the steps necessary for the products you want to install. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 8 | run the JCL that was created by the installation system | The installation system presents installation JCL for your approval and helps you to run the JCL. | <i>OS/390 and z/OS Installer Guide</i> , "Running Installation JCL" chapter |
| | 9 | specify product authorization passwords | Permission to run your products is granted. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 10 | verify installation | Some products include an installation verification program (IVP) or provide information to verify installation. | <i>MAINVIEW Common Customization Guide</i> , "Customizing the MAINVIEW Environment" chapter |

Customization Steps

The following customization steps describe the tasks that you must complete to run your product (for some products, additional customization options might be available once the product is running). Some tasks might be performed by using the installation system, while other tasks might be performed by using a separate utility.

| ✓ | Step | Task | Description | Reference |
|---|------|---|--|--|
| | 1 | choose the customization option in the installation system | Customization is started through the customization option in the installation system. | <i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter |
| | 2 | create or update system objects, components, or resources | System objects, components, and resources include such items as sysplex or coupling facility, VTAM, TCP/IP, and LPARs. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 3 | create or update subsystem objects, components, or resources | Subsystem objects, components, and resources include such items as DB2 plans, DB2 table spaces, and APPLIDs. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 4 | allocate, create, or update data sets or files | Many products require specific data sets or files. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 5 | set up data collectors | Many products use a data collector to store system data that they have collected. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter <i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter |
| | 6 | install or update the interface | Some products require customization of ISPF or require the use of an interface other than ISPF. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 7 | create or update profiles or global parameters | Most products require profiles or parameters to be set or updated. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 8 | create or update the initialization PROC, CLIST, REXX EXEC, or started task | Most products require a startup routine to run. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |
| | 9 | define or update security | All products provide information for interfacing to RACF or other security products. Some products include their own security features in addition to or instead of RACF security. | <i>Implementing Security</i> , "Enhanced Security" section <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |

| ✓ | Step | Task | Description | Reference |
|---|------|--|--|--|
| | 10 | implement user exits | Some products provide user exits for interfacing with the product. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter <i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter |
| | 11 | perform additional customization tasks for your products | Some products require additional tasks to be performed before the products are completely installed. | <i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter |
| | 12 | verify customization | Some products provide information to verify customization of the product. | <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter |

Where To Go From Here

When installation of your products is complete, refer to the following books:

| Product | Book |
|-----------------|--|
| MAINVIEW for IP | <i>MAINVIEW for IP Customization Guide</i> |

Chapter 2 Installation Preparation

This chapter provides information about preparing for MAINVIEW for IP installation. This chapter contains the following sections:

| | |
|---------------------------------|-----|
| Overview | 2-2 |
| Required Materials | 2-2 |
| Checklists | 2-3 |
| Worksheets | 2-3 |
| Prerequisites | 2-4 |
| OSA Requirements | 2-4 |
| System Requirements | 2-4 |
| RACF Requirements | 2-5 |
| Product Authorization | 2-5 |

Overview

Before you install MAINVIEW for IP, you must gather specific information. This chapter describes the materials, prerequisites, and product authorization that can help you install and customize MAINVIEW for IP.

Required Materials

This section describes the materials that you must gather and review before installing MAINVIEW for IP.

Books and Notices

Table 2-1 lists the installation and customization books that you will need to install and customize MAINVIEW for IP.

Table 2-1 **Installation and Customization Materials**

| Material | Description |
|---|--|
| release notes, flashes, and technical bulletins | provide important product information and last-minute information |
| <i>OS/390 and z/OS Installer Guide</i> | provides information about the OS/390 and z/OS Installer |
| <i>MAINVIEW for IP Customization Guide</i> | provides installation planning information and instructions for setup and testing, and provides instructions for customizing MAINVIEW for IP when it has been installed by using the OS/390 and z/OS Installer |

Checklists

The installation checklist outlines the steps that you must perform to install and run MAINVIEW for IP. The checklist summarizes what you must do and refers you to detailed instructions.

Note: The Installation Checklist Generator runs with Microsoft Internet Explorer 4 or later, and Netscape Navigator versions 4.08 through 4.78, inclusive.

The Installation Checklist Generator is available on your documentation CD, and the most current version is on the BMC Software Web site at <http://www.bmc.com/support.html>. Using the checklist generator, you can select a set of products that are available in the installation system to produce an integrated checklist which lists each step that you must complete for successful installation.

The checklist provides the following information:

- list of preinstallation tasks to complete and items to assemble
- specific installation tasks to help you run the installation system and successfully complete the installation
- list of the customization tasks necessary to run your product
- references to where you can find additional or supporting information

You can run the Installation Checklist Generator, *or* you can copy and combine checklists from the customization books for the BMC Software products that you plan to install.

Worksheets

Worksheets are provided for many BMC Software products. A worksheet contains information, such as data set names and library locations, that you will need for completing installation. Before beginning installation, copy and combine all worksheets from the customization books for the BMC Software products that you plan to install.

Prerequisites

This section describes hardware, system, and security product prerequisites.

MAINVIEW for IP operates as a client in the MAINVIEW Infrastructure product address space (PAS) and uses MAINVIEW services. Installation and customization of MAINVIEW for IP require only a few steps before you can take advantage of MAINVIEW services and enable MAINVIEW for IP.

Note: MAINVIEW for IP can monitor one IP stack or multiple IP stacks. If your data center runs MAINVIEW for IP on an MVS with multiple IP stacks, no additional installation or configuration steps are required.

For procedures on acquiring and installing MAINVIEW for IP from the product tape, see the *MAINVIEW Installation Requirements Guide*. Target and distribution libraries are in the base MAINVIEW installation.

OSA Requirements

Before you can use the Open Systems Adapter (OSA) views, ensure that your operating system meets the minimum requirements and complete the required customization tasks. For more information about minimum requirements and customization tasks, see Chapter 4, “Additional Customization.”

System Requirements

Prerequisites are required for the installation and use of MAINVIEW for IP (product group 4), including the operating system software. For more information about the prerequisites that are required for product group 4, see the *MAINVIEW Installation Requirements Guide*.

The following prerequisites are required for MAINVIEW for IP:

- MAINVIEW Infrastructure PAS
 - OS/390 2.5 through z/OS 1.1 or later
 - IBM TCP/IP stack
- Note:** Other TCP/IP stacks are not supported.

RACF Requirements

A security product like Resource Access Control Facility (RACF) is required for the OS/390 eNetwork Communications Server version 2.5 (or later) Internet Protocol (IP) environment. Each unit of work in the system that requires Unix System Services must be associated with a Unix System Services identity. A valid identity refers to the presence of a valid Unix user ID (UID), a valid Unix group ID (GID), and a valid HOME directory for the user. The UID and the GID are defined through the OMVS segment, in the RACF profile, and in the RACF group profile.

For more information about RACF, see the *IBM IP Planning and Migration Guide*.

Note: If the started task is not defined to a user ID that has a defined OMVS segment, error messages may be issued. If the HOME directory is not specified for the user ID, the socket call may fail.

Product Authorization

Before you can use MAINVIEW for IP, you must perform product authorization. For more information about the BMC Software Product Authorization utility, see the *OS/390 and z/OS Installer Guide*.

Chapter 3 Installation Customization

This chapter provides information about customizing MAINVIEW for IP for operation in your environment. This chapter contains the following sections:

| | |
|---|------|
| Overview | 3-2 |
| AutoCustomization. | 3-2 |
| Executing TAC Steps | 3-4 |
| Manual Customization | 3-5 |
| Task 1—Customizing the MAINVIEW Online Environment | 3-6 |
| Task 2—Customizing the MAINVIEW for IP Online Environment. | 3-7 |
| Task 2.A—Creating the MAINVIEW for IP Product Address Space | 3-8 |
| Task 2.B—Creating Input Parameters | 3-10 |
| Task 2.C—Creating SNMP Parameters | 3-13 |
| Task 2.D—Creating the Password Library | 3-15 |
| Task 2.E—Creating the History Data Set. | 3-16 |
| Task 2.F—Editing the Batch Jobs | 3-19 |

Overview

This chapter describes how to customize MAINVIEW for IP to make the basic functions operational by using the following methods:

- AutoCustomization
- manual customization

When MAINVIEW for IP has been installed on your system, you must create a MAINVIEW for IP product address space (PAS). You can use AutoCustomization to perform this task, or you can perform the customization manually.

AutoCustomization performs most required steps, providing panels on which you can enter the information it needs. You may also have to perform steps to ensure the level of security that is required at your site.

To perform the customization steps manually, see the *MAINVIEW Common Customization Guide* and “Manual Customization” on page 3-5.

AutoCustomization

AutoCustomization lets you perform the minimum steps that are required to make MAINVIEW for IP (product code *TAC*) operational.

Product Customization Steps

You can customize MAINVIEW for IP by completing the TAC steps of AutoCustomization. When you invoke AutoCustomization and access the Product Customization Steps panel for MAINVIEW for IP, the product customization steps are displayed. Figure 3-1 and Figure 3-2 on page 3-3 show the Product Customization Steps panels that are displayed for MAINVIEW for IP. For detailed information about invoking and using AutoCustomization, see the *MAINVIEW Common Customization Guide*.

Figure 3-1 First Sample Product Customization Steps Panel

```

BMC Software ----- PRODUCT CUSTOMIZATION STEPS ----- Row 1 to 15 of 19
COMMAND ==> SCROLL ==> PAGE

Valid line commands:
S - Select a step (Must be selected in sequence)
B - Browse a step (No action is taken; step may be browsed out of sequence)

Status (S)      Flag (F)
-----
+ completed     o optional
- bypassed

Step S F  Description
-----
1  +   Specify jobcards and other operational defaults          SHR
2  - o   Generate JCL to run Installation Verification Program    SHR
3  - o   Implement GDDM/PGF support                              SHR
4  - o   Implement Katakana terminal support                     SHR
5  +   Create site data sets for use with MainView products     SHR
6  + o   Create site security data set for use with MainView products SHR
7  - o   Add the BMC Software load library to your system APF list SHR
8  - o   Add the BMC Software load library to your system link list SHR
9  +   Create CLIST for invoking MainView products              SHR
10 - o   Reload all BBX services                                  SHR
11 +   Create the CAS (Coordinating Address Space) startup procedure SHR
12 +   Create Mainview Explorer Host Server startup procedure    SHR
13 +   Create MAINVIEW for IP Product Address Space              TAC
14 +   Create Input Params                                        TAC
15 +   Create SNMP parms                                         TAC

```

Figure 3-2 Second Sample Product Customization Steps Panel

```

BMC Software ----- PRODUCT CUSTOMIZATION STEPS ----- Row 16 to 19 of 19
COMMAND ==> SCROLL ==> PAGE

Valid line commands:
S - Select a step (Must be selected in sequence)
B - Browse a step (No action is taken; step may be browsed out of sequence)

Status (S)      Flag (F)
-----
+ completed     o optional
- bypassed

Step S F  Description
-----
16 +   Create Password Library                                  TAC
17 +   Create History                                           TAC
18 + o   Online Authorization                                    TAC
19 + o   Batch Authorization                                     TAC
***** Bottom of data *****

```

Executing TAC Steps

Summary: In this task, you will execute TAC customization steps.

Before You Begin

Note: If you have not used AutoCustomization, or if you are unsure about a step, use the browse (B) line command to browse the step before selecting it. For more information about AutoCustomization, see the *MAINVIEW Common Customization Guide*.

Each TAC step is described in Table 3-1. The panels for each step prompt you for specific customization information; Help is available when you press **F1**. For more information about each TAC step, see “Manual Customization” on page 3-5.

Table 3-1 TAC AutoCustomization Steps

| Step | Description |
|--|---|
| Create MAINVIEW for IP Product Address Space | (required) Lets you create the PAS for MAINVIEW for IP. |
| Create Input Parm | (required) Lets you create a data set that contains the startup parameters for the PAS. |
| Create SNMP parms | (required) Lets you create a data set that contains the parameters for the Simple Network Management Protocol (SNMP) data. |
| Create Password Library | (required) Lets you create the JCL for the Product Authorization library data set that contains the password for the PAS and the ULTRAOPT started task. |
| Create History | (required) Lets you create a data set that contains output from the historical data recorder. |
| Online Authorization | (optional) Lets you interactively process Product Authorization (password) requests online. You can process a BMC Software-supplied password, display the contents of the Product Authorization table, or display information about the processor that you are using. |
| Batch Authorization | (optional) Lets you use a batch program to manage the Product Authorization library. |

Manual Customization

Manual customization lets you customize MAINVIEW for IP to best suit your needs. BMC Software provides AutoCustomization procedures that help you customize the environment automatically. This section describes the steps for customizing the environment manually.

Table 3-2 summarizes the manual customization process. The right column names the data set member containing the sample JCL that is included on the tape. These samples are in the *hilevel.BBSAMP* data set on the tape, but you can specify a different high-level qualifier when you write the JCL to unload the tape.

Table 3-2 Summary of Manual Customization Process

| Task | Description | Data Set Member |
|-------------|---|------------------------|
| 1 | Customize the MAINVIEW (SHR) online environment. | n/a |
| 2 | Customize the MAINVIEW for IP (TAC) online environment. | n/a |
| 2.A | Create the MAINVIEW for IP PAS. | TACPAS |
| 2.B | Create the MAINVIEW for IP input parameters. | TACPRM |
| 2.C | Create the SNMP input parameters. | TACSNM |
| 2.D | Create the password library. | TACLIB |
| 2.E | Create the history data set. | TACHIS |
| 2.F | Edit the batch jobs that install your bypass Product Authorization password in the product authorization load module. | TACSEC |

Task 1—Customizing the MAINVIEW Online Environment

To perform manual customization of the MAINVIEW online environment, see the *MAINVIEW Common Customization Guide*.

Note: Because of library allocations, TAC manual customization cannot be performed until you have completed manual customization for the SHR steps. Instructions for executing the SHR steps are provided in the *MAINVIEW Common Customization Guide*.

Task 2—Customizing the MAINVIEW for IP Online Environment

The online environment for MAINVIEW products must be customized so that the MAINVIEW for IP PAS and the MAINVIEW coordinating address space (CAS) can be connected.

You can customize the MAINVIEW for IP environment manually or automatically. BMC Software provides AutoCustomization procedures that help you customize the environment step by step. This section describes the steps for customizing the MAINVIEW for IP environment manually.

Task 2.A—Creating the MAINVIEW for IP Product Address Space

Summary: In this task, you will create the MAINVIEW for IP PAS.

Before You Begin

To customize MAINVIEW for IP, you must create the MAINVIEW for IP PAS startup procedure. To start the MAINVIEW for IP PAS, you must create a procedure in your system procedure library.

When creating the PAS procedure, you must define the same subsystem name in the subsystem ID (SSID) subparameter that is defined in the CAS PROC. The SSID value is used by the PAS during initialization to identify the CAS to which it connects.

To Create the MAINVIEW for IP PAS

- Step 1** Select *hilevel.BBSAMP* member TACPAS.
- Step 2** To customize the TACPAS procedure, follow the instructions at the top of the BBSAMP(TACPAS) member.

A sample of the member is shown in Figure 3-3.

Figure 3-3 Sample BBSAMP Member TACPAS (Part 1 of 2)

```

/*
/*  CHANGE LOG:
/*
/*      CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
/*
/*  NOTE: ANY REGION SIZE GREATER THAN 16 MEGS AND LESS THAN
/*        32 MEGS, CAUSES MVS TO MAKE AVAILABLE ALL STORAGE BELOW
/*        THE 16 MEG LINE AND 32 MEGS OF STORAGE (THE IBM DEFAULT)
/*        ABOVE THE LINE.
/*-----
/*MVTCPPI PROC REG=0,
/*      BBLINK='?BBLINK',
/*      BBCHILV='?BBCHILV'
/*-----
/*TACMDSP0 EXEC PGM=TACMDSP4,REGION=&REG.M,TIME=1440,
/*      PARM=('SSID=?SSID',                                <----- SUBSYSTEM ID
/*      'SVCPTDEF=TAC9AASP',
/*      'XDM=NO'),
/*      ACCT=                                                <----- ACCOUNTING INFORMATION
/******
/* SSID - ?SSID      (THIS PARAMETER HAS NO DEFAULT VALUE)      *
/******                                                        *
/*      SPECIFIES THE SUBSYSTEM ID USED TO IDENTIFY THE MAINVIEW *
/*      COORDINATING ADDRESS SPACE (CAS).  THIS PAS USES THE SSID *
/*      PARAMETER TO CONNECT TO THE CORRECT CAS, SO THE SAME VALUE *
/*      MUST BE SPECIFIED BOTH FOR THIS SSID PARAMETER AND FOR THE *
/*      CAS SSID PARAMETER.                                       *
/******

```


Figure 3-3 Sample BBSAMP Member TACPAS (Part 2 of 2)

```

//STEPLIB DD DISP=SHR,DSN=&BBLINK
//*
//* PACKET TRACE MODULES.
//*
//PKTTRACE DD DISP=SHR,DSN=TCP/IP.SEZALINK
//*
//* ACTION DEFINITION TABLES.
//*
//BBACTDEF DD DISP=SHR,DSN=&BBCHILV..BBACTDEF
//*
//* VIEW DEFINITIONS.
//*
//BBVDEF DD DISP=SHR,DSN=&BBCHILV..BBVDEF
//*
//* PARM DEFINITIONS.
//*
//BBIPARM DD DISP=SHR,DSN=&BBCHILV..BBIPARM
//*
//* PASSWORD.
//*
//BMCPSWD DD DISP=SHR,DSN=&BBCHILV..BMCPSWD
//*
//* PRODUCT SAS/C MESSAGES.
//*
//SYSTEM DD SYSOUT=*
//*
//* PRODUCT INPUT PARMS.
//*
//SYSIN DD DISP=SHR,DSN=&BBCHILV..PARMS
//*
//* SNMP INPUT PARMS.
//*
//SNMPPARM DD DISP=SHR,DSN=&BBCHILV..SNMPPARM
//*
//* HISTORY VSAM FILES.
//*
//HISTDS00 DD DISP=SHR,DSN=&BBCHILV..HISTDS00
//HISTDS01 DD DISP=SHR,DSN=&BBCHILV..HISTDS01
//HISTDS02 DD DISP=SHR,DSN=&BBCHILV..HISTDS02
//*
//*
//* *NOTE* - THIS MAY REQUIRE CHANGE !!!
//*
//* TCP/IP CONFIGURATION DATASET
//* IF THIS IS A PDS, YOU MUST CODE TCP/IP.TCPIP.DATA(TCPDATA)
//*
//*
//SYSTCPD DD DISP=SHR,DSN=TCP/IP.TCPIP.DATA <<<=== YOUR DSN/MBR
//*
//* DEBUG DATASETS.
//*
//UCONFDBG DD SYSOUT=*
//UPORTDBG DD SYSOUT=*
//UROUTDBG DD SYSOUT=*
//UTRCDBG DD SYSOUT=*
//UPINGDBG DD SYSOUT=*
//UDEVSDBG DD SYSOUT=*
//UCONSDBG DD SYSOUT=*
//UVIPADBG DD SYSOUT=*
//USNMPDBG DD SYSOUT=*
//UKILLDBG DD SYSOUT=*
//UOBEYDBG DD SYSOUT=*
//USLAPDBG DD SYSOUT=*
//UCACHDBG DD SYSOUT=*
//UBUFSDBG DD SYSOUT=*
//UOSADDBG DD SYSOUT=*

```

Step 3 Save your changes.

Step 4 Copy the member to your procedure library.

Task 2.B—Creating Input Parameters

Summary: In this task, you will create the MAINVIEW for IP input parameters.

Before You Begin

You can use a SYSIN data definition (DD) statement for startup parameters. With this feature, the startup procedure can be frozen. Changes can be implemented by modifying the contents of the data set that the SYSIN DD points to, making it easier to comply with change control procedures. The SYSIN DD statement also removes the limitation of 100-byte parameter strings.

A sample parameter file is provided with the distribution tape in member *hilevel.BBSAMP(TACPRM)*. The parameter file syntax rules are as follows:

- An asterisk (*) or a blank () in column 1 causes that line to be treated as a comment line.
- Input is scanned up to and including column 71.
- A comma (,) at the end of a line (before column 72) is interpreted as a continuation character.

For example, the file may contain the following parameter:

```
* Comment starting with asterisk in column 1
PARM1,
PARM2,
PARM3,
PARMLAST,
END
```

- If a syntax error (for example, a missing continuation) or an invalid parameter occurs, the subsystem will not initialize.

Valid startup parameters for MAINVIEW for IP are described in TACPRM. For more information, see Chapter 5, “Startup Parameters.”

Note: When you accept the default parameters that are provided in TACPRM, MAINVIEW for IP reviews the indicated data every 15 minutes. If system management facility (SMF) recording is on, MAINVIEW for IP writes the data to SMF every 15 minutes.

To Create MAINVIEW for IP Input Parameters

- Step 1** Select *hilevel.BBSAMP(TACPRM)*.
- Step 2** To customize the TACPRM, follow the instructions at the top of the TACPRM member.

A sample of the member is shown in Figure 3-4.

Figure 3-4 Sample BBSAMP Member TACPRM (Part 1 of 2)

```

/*
/*  CHANGE LOG:
/*
/*      CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
//IEFBR14 EXEC PGM=IEFBR14
//DELETE DD DISP=(MOD,DELETE),DSN=?BBCHILV.PARMS,
//          UNIT=SYSDA,SPACE=(TRK,0)
/*-----
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=*
//SYSUT2 DD DISP=(NEW,CATLG),DSN=?BBCHILV.PARMS,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120),
//          UNIT=SYSDA,SPACE=(TRK,1)
//SYSIN DD DUMMY
//SYSUT1 DD *
*
* * IN COL1 INDICATES COMMENT
*
* CONFIGURATION PARMS FOR MAINVIEW/IP
* REQUIRES OS390 R2.5 AND HIGHER WITH IBM TCPIP STACK.
* REQUIRES RACF OMVS SEGMENT AUTHORITY.
*
* SMFREC= PARAMETER INDICATES THAT SMF RECORDING WILL BE
* TURNED ON. THE SMF RECORD IS WRITTEN FOR EACH COMPONENT
* BASED ON THEIR INTERVALS. THE DEFAULT IS SMF RECORDING "OFF"
* AND USING USER RECORD 252.
*
* TO TURN OFF SMF RECORDING, YOU MUST REMOVE THE SMFREC= PARAMETER.
*
* NOTE: INTERVALS ARE SPECIFIED IN NUMBER OF MINUTES
*
* NOTE: DEBUG PARAMETERS ARE COMMENTED OUT IN ORDER AVOID
* HIGH CPU CONSUMPTION(AND OTHER RESOURCES).
* BMC SUPPORT MAY REQUEST THESE OPTIONS TO BE TURNED ON
* WHEN DIAGNOSING A SPECIFIC PROBLEM.
*
CONFINT=15,        PROCESS TCPIP CONFIGURATION EVERY 15 MINUTES
CONSINT=15,        PROCESS ACTIVE CONNECTIONS EVERY 15 MINUTES
ROUTINT=15,        PROCESS ROUTE/GATEWAY EVERY 15 MINUTES
DEVSINT=15,        PROCESS DEVICE/LINKS EVERY 15 MINUTES
PORTINT=15,        PROCESS PORT DEFINITIONS EVERY 15 MINUTES
SNMPINT=15,        PROCESS SNMP COLLECTION EVERY 15 MINUTES
VIPINT=15,         PROCESS VIPA INFORMATION EVERY 15 MINUTES
BUFSINT=15,        PROCESS STORAGE(VTAM/CSM) EVERY 15 MINUTES
SLAPINT=15,        PROCESS SLA POLICY EVERY 15 MINUTES
CACHINT=15,        PROCESS WEB CACHE ANALYSIS EVERY 15 MINUTES
*SMFREC=252,       SMF USER RECORD DEFINITION
NOXSUPP,          DO NOT SUPPRESS SMFTYPE 118 RECORDS IN FTPSMFX
*XSUPP,           SUPPRESS SMFTYPE 118 RECORDS IN FTPSMFX EXIT
DNR,              PROVIDE DOMAIN NAME RESOLUTION(NSLOOKUP) FUNCTION
*NODNR,           DO NOT PROVIDE DOMAIN NAME RESOLUTION FUNCTION
RESPJOB=ON,       PROCESS RESPONSE_TIME_BY_JOBNAME
RESPPORT=ON,      PROCESS RESPONSE_TIME_BY_PORT

```

Figure 3-4 Sample BBSAMP Member TACPRM (Part 2 of 2)

```
CONS#=10000,      ALLOCATE CONNECTION CONTROL BLOCKS
ROUT#=5000,       ALLOCATE ROUTE CONTROL BLOCKS
PORT#=2000,       ALLOCATE PORT CONTROL BLOCKS
FTPXBUFFS=1000,   ALLOCATE FTPEXIT CONTROL BLOCKS
*DBG CACH,        DEBUG PARAMETER FOR CACHE
*DBG CONF,        DEBUG PARAMETER FOR CONFIGURATION
*DBG CONS,        DEBUG PARAMETER FOR CONNECTIONS
*DBG DEVS,        DEBUG PARAMETER FOR DEVICES/LINKS
*DBG PING,        DEBUG PARAMETER FOR PING
*DBG PORT,        DEBUG PARAMETER FOR PORTS
*DBG ROUT,        DEBUG PARAMETER FOR ROUTES
*DBG SLAP,        DEBUG PARAMETER FOR SLA POLICIES
*DBG SNMP,        DEBUG PARAMETER FOR SNMP
*DBG TRCE,        DEBUG PARAMETER FOR TRACEROUTE
*DBG VIPA,        DEBUG PARAMETER FOR VIPA
*DBG BUFS,        DEBUG PARAMETER FOR CSM STORAGE
*DBG OSAD,        DEBUG PARAMETER FOR OSA
END               END CONFIGURATION PARMS
/*
```

Step 3 Save your changes.

Step 4 Submit the job.

Task 2.C—Creating SNMP Parameters

Summary: In this task, you will create the SNMP input parameters.

Before You Begin

A sample parameter file is provided with the distribution tape in member *hilevel.BBSAMP(TACSNM)*. For information about the parameter file syntax rules, see “Task 2.B—Creating Input Parameters” on page 3-10.

You can use the SNMPDEF view to dynamically update SNMP parameters for each IP node that you want monitored through MAINVIEW for IP. For instructions on how to use SNMPDEF, see the *MAINVIEW for IP User Guide*.

To Create SNMP Input Parameters

- Step 1** Select *hilevel.BBSAMP(TACSNM)*.
- Step 2** To customize the TACSNM, follow the instructions at the top of the TACSNM member.

A sample of the member is shown in Figure 3-5.

Figure 3-5 Sample BBSAMP Member TACSNM

```
/*
/*  CHANGE LOG:
/*
/*      CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
//IEFBR14  EXEC PGM=IEFBR14
//DELETE  DD   DISP=(MOD,DELETE),DSN=?BBCHILV.SNMPPARM,
//          UNIT=SYSDA,SPACE=(TRK,0)
//-----
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD   SYSOUT=*
//SYSUT2   DD   DISP=(NEW,CATLG),DSN=?BBCHILV.SNMPPARM,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120),
//          UNIT=SYSDA,SPACE=(TRK,1)
//SYSIN    DD   DUMMY
//SYSUT1   DD   *
*
* * IN COL1 INDICATES COMMENT
*
* SNMP PARMS FOR MAINVIEW/IP
*
* FORMAT OF THE SNMP PARMS IS:
*
* DEFAULT_COMMUNITY='COMMUNITY NAME'
*
* SNMPNODE=('IPADDR','COMMUNITY NAME') OR
* SNMPNODE=('HOST NAME','COMMUNITY NAME')
*
* NOTE: COMMUNITY NAME IS CASE SENSITIVE.
*
* UNCOMMENT THE FOLLOWING AND CHANGE/ADD IP NODES.
*
*DEFAULT_COMMUNITY=public,
*SNMPNODE=(111.222.333.444,public),
*SNMPNODE=(HOSTNAME,public),
END
END SNMP PARMS
/*
```

- Step 3** Save your changes.
- Step 4** Submit the job.

Task 2.D—Creating the Password Library

Summary: In this task, you will create the MAINVIEW for IP password library.

To create the MAINVIEW for IP password library, perform the following steps:

Step 1 Select *hilevel.BBSAMP(TACLIB)*.

Step 2 To customize the TACLIB, follow the instructions at the top of the TACLIB member.

A sample of the member is shown in Figure 3-6.

Figure 3-6 Sample BBSAMP Member TACLIB

```

/*
/*  CHANGE LOG:
/*
/*      CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
/*//IEFBR14 EXEC PGM=IEFBR14
/*//DELETE DD DISP=(MOD,DELETE),DSN=?BBCHILV.BMCPSWD,
/*//          UNIT=SYSDA,SPACE=(TRK,0)
/*-----
/*IEFBR14 EXEC PGM=IEFBR14
/*CATLG DD DISP=(NEW,CATLG),DSN=?BBCHILV.BMCPSWD,
/*          DCB=(RECFM=U,LRECL=0,BLKSIZE=19069),
/*          UNIT=SYSDA,SPACE=(TRK,(5,5,5))

```

Step 3 Save your changes.

Step 4 Submit the job.

Task 2.E—Creating the History Data Set

Summary: In this task, you will create the data set that contains the output from the historical data recorder.

To create the history data set, perform the following steps:

- Step 1** Select *hilevel.BBSAMP(TACHIS)*.
- Step 2** To customize the TACHIS, follow the instructions at the top of the TACHIS member.

A sample of the member is shown in Figure 3-7.

Figure 3-7 Sample BBSAMP Member TACHIS (Part 1 of 2)

```

/*
/*  CHANGE LOG:
/*
/*      CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
/*
/*  THIS JOB ALLOCATES THREE VSAM HISTORICAL DATA SETS FOR
/*  USE BY THE HISTORICAL DATA RECORDER.
/*
/*  IF ANY ERRORS ARE ENCOUNTERED, PLEASE CORRECT AND RESUBMIT THE
/*  ENTIRE JOB.  DO NOT CONTINUE TO THE NEXT STEP UNTIL THIS JOB
/*  COMPLETES SUCCESSFULLY.
/*
/*  - CHANGE ALL INSTANCES OF ?BBASMFID TO THE SMF ID (SYSTEM ID)
/*  OF THE TARGET SYSTEM.  IF YOU EXECUTE MULTIPLE PRODUCT ADDRESS
/*  SPACES (PAS) ON A SINGLE IMAGE, USE ANOTHER QUALIFIER SUCH AS
/*  THE PAS IDENTIFIER.
/*
/*  - CHANGE ALL INSTANCES OF 111111 TO THE VOLUME NAME WHERE THE
/*  DATA SETS WILL BE ALLOCATED.  REVIEW THIS ON A DATA SET NAME
/*  LEVEL.
/*
/*  - CHANGE ?CYL0 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/*  THE PRIMARY HISTORICAL DATA SET.
/*
/*  - CHANGE ?CYL1 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/*  A SECONDARY HISTORICAL DATA SET.
/*
/*  - CHANGE ?CYL2 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/*  A SECONDARY HISTORICAL DATA SET.
/*
/*  - MODIFY CHANGE LOG TO REFLECT WHEN THIS MEMBER WAS ALTERED.
/*
//DELETE  EXEC PGM=IDCAMS,REGION=4M
//SYSPRINT DD SYSOUT=*
//SYSIN   DD *
        DELETE  ?BBCHILV.?BBASMFID.HISTDS00 -
                PURGE
        DELETE  ?BBCHILV.?BBASMFID.HISTDS01 -
                PURGE
        DELETE  ?BBCHILV.?BBASMFID.HISTDS02 -
                PURGE
        SET MAXCC=0
/*

```


Figure 3-7 Sample BBSAMP Member TACHIS (Part 2 of 2)

```

/*
//DEFINE EXEC PGM=IDCAMS,REGION=4M
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
  DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS00) -
    RECORDSIZE(4200 32000) -
    VOLUMES(111111) /* <----- CHANGE */ -
    KEYS(28 24) -
    SHR(3,3) -
    REUSE) -
    DATA
      (NAME(?BBCHILV.?BBASMFID.HISTDS00.DATA) -
        CYLINDERS(?CYL0)) -
    INDEX
      (NAME(?BBCHILV.?BBASMFID.HISTDS00.INDX) -
        CISZ(4096) -
        CYLINDERS(1))

  DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS01) -
    RECORDSIZE(4200 32000) -
    VOLUMES(111111) /* <----- CHANGE */ -
    KEYS(28 24) -
    SHR(3,3) -
    REUSE) -
    DATA
      (NAME(?BBCHILV.?BBASMFID.HISTDS01.DATA) -
        CYLINDERS(?CYL1)) -
    INDEX
      (NAME(?BBCHILV.?BBASMFID.HISTDS01.INDX) -
        CISZ(4096) -
        CYLINDERS(1))

  DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS02) -
    RECORDSIZE(4200 32000) -
    VOLUMES(111111) /* <----- CHANGE */ -
    KEYS(28 24) -
    SHR(3,3) -
    REUSE) -
    DATA
      (NAME(?BBCHILV.?BBASMFID.HISTDS02.DATA) -
        CYLINDERS(?CYL2)) -
    INDEX
      (NAME(?BBCHILV.?BBASMFID.HISTDS02.INDX) -
        CISZ(4096) -
        CYLINDERS(1))

/*
//
//
//SEED EXEC PGM=IDCAMS,REGION=4M
//SYSPRINT DD SYSOUT=*
//IN1 DD DISP=SHR,DSN=?BBCHILV.BBILIB(@@YZZ052)
//SYSIN DD *
  REPRO INFILE (IN1) -
    OUTDATASET(?BBCHILV.?BBASMFID.HISTDS00)
  REPRO INFILE (IN1) -
    OUTDATASET(?BBCHILV.?BBASMFID.HISTDS01)
  REPRO INFILE (IN1) -
    OUTDATASET(?BBCHILV.?BBASMFID.HISTDS02)
/*
//

```

Step 3 Save your changes.

Step 4 Submit the job.

History Interval

If you have allocated historical data sets, historical reporting begins as soon as the PAS is initialized. Data is recorded at the interval that is specified in the *hilevel*.BBPARM data set member TACTIR00. The default length of the recording interval is 15 minutes.

Intervals are usually synchronized on the hour (SYNCVAL=0). For example, if the interval value (INTVAL) is specified as 15 minutes and extraction begins at 07:49 a.m., the first interval lasts 11 minutes until 08:00 a.m. Successive intervals are 08:00 to 08:15, 08:15 to 08:30, and so on.

A sample of the TACTIR00 member is shown in Figure 3-8.

Figure 3-8 **Sample BBPARM Member TACTIR00**

```
<INTERVAL INTVAL="15" SYNCVAL="0" />
```

Task 2.F—Editing the Batch Jobs

Summary: In this task, you will edit the batch jobs that install your bypass Product Authorization password in the product authorization load module.

To edit the batch jobs, perform the following steps:

- Step 1** Select *hilevel.BBSAMP(TACSEC)*.
- Step 2** To customize the TACSEC, follow the instructions at the top of the TACSEC member.

A sample of the member is shown in Figure 3-9.

Figure 3-9 Sample BBSAMP Member TACSEC (Part 1 of 2)

```

/**
/**  CHANGE LOG:
/**
/**      CREATED BY ?USER ON ?DATE AT ?TIME
/**
/**-----
/**
/**  VALID KEYWORDS AND EXAMPLES ARE:
/**
/**      PSWD      ==>  PSWD=XXX,XXX,XXX,XXX
/**                      WHERE XXX,XXX,XXX,XXX IS THE PASSWORD
/**
/**      OLDCPUID ==>  OLDCPUID=SSSSS-MMMM
/**                      WHERE SSSSS IS THE CPU SERIAL NUMBER OF
/**                      YOUR "OLD" CPU
/**                      MMMM IS THE CPU MODEL NUMBER OF
/**                      YOUR "OLD" CPU
/**      THE "OLDCPUID" KEYWORD IS USED WITH "DELETE", "REPLACE",
/**      AND "MODIFY" PASSWORDS.
/**
/**      NEWCPUID ==>  NEWCPUID=CCCCC-NNNN
/**                      WHERE CCCCC IS THE CPU SERIAL NUMBER OF
/**                      YOUR "NEW" OR CURRENT CPU
/**                      NNNN IS THE CPU MODEL NUMBER OF
/**                      YOUR "NEW" OR CURRENT CPU
/**      THIS KEYWORD IS USED WITH "ADD" AND "REPLACE PASSWORDS
/**
/**      LIST      ==>  LIST
/**      THIS KEYWORD WILL LIST ALL OF THE ENTRIES IN THE
/**      PRODUCT AUTHORIZATION TABLE.
/**
/**
/**  KEYWORD SYNTAX FOR PSWD, NEWCPUID, OLDCPUID:
/**  THE SYNTAX FOR THE PSWD, NEWCPUID, AND OLDCPUID KEYWORDS IS
/**  FREE FORM.  THESE KEYWORDS MAY START IN ANY COLUMN AND IN ANY
/**  ORDER AS LONG AS THE STATEMENT DOES NOT EXCEED COLUMN 72.
/**  ALL KEYWORDS MUST BE SPECIFIED ON A SINGLE LINE WITHOUT
/**  COMMENTS.  THE SYSIN CONTROL STATEMENT CAN NOT BE CONTINUED.
/**  MULTIPLE SYSIN CONTROL STATEMENTS CAN BE PROCESSED IN A
/**  SINGLE JOB STEP.
/**

```

Figure 3-9 Sample BBSAMP Member TACSEC (Part 2 of 2)

```

/* KEYWORD SYNTAX FOR LIST:                                *
/*   THE LIST KEYWORD CAN NOT BE SPECIFIED WITH ANY OTHER KEYWORD. *
/*   IF SPECIFIED IN CONJUNCTION WITH OTHER KEYWORDS, IT WILL BE *
/*   IGNORED AND WILL NOT BE PROCESSED.  THE LIST KEYWORD SHOULD *
/*   NOT EXCEED COLUMN 72.                                     *
/* *                                                         *
/* EXAMPLES:                                                 *
/* *                                                         *
/* *PROCESS AN "ADD" PASSWORD:                               *
/*   PSWD=123,456,789,ABC      NEWCPUID=98765-4321          *
/* *                                                         *
/* *PROCESS A "DELETE" PASSWORD:                             *
/*   PSWD=123,456,789,ABC      OLDCPUID=98765-4321          *
/* *                                                         *
/* *PROCESS A "MODIFY" PASSWORD:                             *
/*   PSWD=123,456,789,ABC      OLDCPUID=98765-4321          *
/* *                                                         *
/* *PROCESS A "REPLACE" PASSWORD:                             *
/*   PSWD=123,456,789,ABC OLDCPUID=98765-4321 NEWCPUID=98777-4321 *
/* *                                                         *
/* *PROCESS A "TEMPORARY" PASSWORD:                           *
/*   PSWD=123,456,789,ABC                                           *
/* *                                                         *
/* *REPORT PROCESSOR INFORMATION AND AUTHORIZATION:           *
/*   LIST                                                           *
/* *                                                         *
/* *****                                                    *
/* *                                                         *
/* SECSEC3B EXEC PGM=SECSEC3B,PARM=BFX                          *
/* *                                                         *
/* STEPLIB DD DISP=SHR,DSN=?BBLINK                               *
/* SYSPRINT DD SYSOUT=*                                           *
/* SYSLIB DD DISP=SHR,DSN=?BBCHILV.BMCPSWD                      *
/* SYSIN DD *                                                     *
/* LIST                                                           *
/* *

```

Step 3 Save your changes.

Step 4 Submit the job.

Chapter 4 Additional Customization

This chapter provides more information about customizing MAINVIEW for IP for operation in your environment. This chapter contains the following sections:

| | |
|---|-----|
| Customizing MAINVIEW for IP to Collect OSA Data | 4-2 |
| Setup Requirements | 4-2 |
| Customization Tasks | 4-2 |
| Implementing FTP Servers Data Collection | 4-3 |

Customizing MAINVIEW for IP to Collect OSA Data

MAINVIEW for IP provides an OSA Cards menu that lets you access views that display information about Open Systems Adapter (OSA) devices. Before you can use the OSA Cards menu and views, ensure that your operating system meets the minimum requirements and complete the required customization tasks.

Setup Requirements

Before you can set up OSA, your operating system must be z/OS 1.2 or later.

Customization Tasks

To enable data collection for the OSA views, complete the tasks described in Table 4-1:

Table 4-1 OSA Customization Tasks

| Task | Description | IBM Publication |
|------|---|---|
| 1 | Configure the OSA support. | <i>z/OS Communications Server: IP Configuration Guide</i> |
| 2 | Set up OSA/Support Facility on the server. | <i>S/390: OSA-Express Customer's Guide and Reference</i> |
| 3 | Set up the Simple Network Management Protocol (SNMP) TCP/IP subagent. | <i>S/390: OSA-Express Customer's Guide and Reference</i> |

Implementing FTP Servers Data Collection

MAINVIEW for IP collects file transfer protocol (FTP) server statistics by using an exit point (defined by IBM) and an exit—FTPSMFEX—provided by BMC Software. To implement FTP data collection, perform the following tasks:

1. If one does not already exist, add a step library data definition (DD) statement to any FTP servers that will support this feature.

You can use a separate load library or the MAINVIEW for IP load library. The data set must be APF authorized.

2. Copy the exit module from the MAINVIEW for IP load library to the data set that is described in Step 1.

Note: This step is not required if you plan to use the MAINVIEW for IP load library.

3. Add the statement SMFEXIT to the FTP.data file (SYSFTPD in the FTP server procedure).
4. Ensure that system management facility (SMF) type 118 records are written by that system.

For a list of SMF records that will be written by the specific OS/390 or z/OS system, see SYS1.PARMLIB(SMFPRMxx).

Chapter 5 Startup Parameters

This chapter describes startup parameters that you can use with MAINVIEW for IP. This chapter contains the following sections:

| | |
|---|-----|
| Conventions | 5-2 |
| Parameters | 5-2 |
| DNR—Enable Domain Name Resolution Function | 5-2 |
| FTPXBUFFS—Allocate FTP Exit Control Blocks | 5-2 |
| NODNR—Disable Domain Name Resolution Function | 5-3 |
| NOXSUPP—No Exit Suppression | 5-3 |
| RESPJOB—Collect Jobname Response Time Data | 5-3 |
| RESPPORT—Collect Port Response Time Data | 5-3 |
| SMFREC—Set Type of SMF Record | 5-3 |
| XSUPP—Exit Suppression | 5-4 |
| xxxxINT—Set SMF Recording Interval | 5-4 |

Conventions

The descriptions of the startup parameters are listed alphabetically to help you find them more easily. In the startup procedure, you can use them in any order.

Note: If you are using more than five parameters in the MAINVIEW for IP startup procedure, the SYSIN DD statement removes the limitation of 100-byte parameter strings. For more information about using the SYSIN data set for parameter specification, see Chapter 3, “Installation Customization.”

These startup parameters are in *hilevel.TACPRM*. The syntax uses the following conventions:

- Items in italics are variables for which you must supply a value. For example, in `HALT subsysid`, you must supply the correct subsystem ID name.
- When two or more items are separated by a vertical line, you must select only one item. For example, in `Z | HALT subsysid,CANCEL`, you would use Z or HALT but not both.

Parameters

This section lists the parameters that you can use in MAINVIEW for IP.

DNR—Enable Domain Name Resolution Function

This parameter enables the domain name resolution (DNR) function. The DNR function resolves an IP address to a domain name, and provides the IP address of a domain name. DNR is the default parameter.

FTPXBUFFS—Allocate FTP Exit Control Blocks

MAINVIEW for IP collects file transfer protocol (FTP) statistics using an exit point (defined by IBM) and an exit—FTPSMFEX—that is provided by BMC Software. The statistics are stored in buffers before being written by the interval recorder. The FTPXBUFFS parameter allocates control blocks for recording file transfer information. The default number of control blocks is 1000.

NODNR—Disable Domain Name Resolution Function

This parameter disables the DNR function. The DNR function resolves an IP address to a domain name, and provides the IP address of a domain name. The NODNR parameter causes the product to start without the DNR functionality.

NOXSUPP—No Exit Suppression

MAINVIEW for IP collects file transfer protocol (FTP) statistics using an IBM-defined exit point and a BMC Software–provided exit. The exit point is activated by requesting SMF logging of type 118 records in the FTP server. NOXSUPP is the default parameter.

RESPJOB—Collect Jobname Response Time Data

This parameter collects response time information by job name. RESPJOB can be entered in the format RESPJOB=ON | OFF.

RESPPORT—Collect Port Response Time Data

This parameter collects response time information by port. RESPREPORT can be entered in the format RESPREPORT=ON | OFF.

SMFREC—Set Type of SMF Record

This parameter lets you specify what type of SMF record to put in the SMF data set. SMFREC is specified as SMFREC=*nnnx*. *nnn* is the user SMF record type 128 to 255 and *x* is the record description. For example, to specify that SMF records be designated as type 252C (connections and response times information), list SMFREC=252C in your startup parameters. MAINVIEW for IP does not record unless the corresponding CONSINT parameter is also listed in the startup parameter.

If your data center has not allowed SMF to record the *xxx* record type, you will be prompted to specify a record type that is included in the SMF parameter definition (in 'SYS1.PARMLIB(SMFPRM*xx*)').

For information about SMF records, setting up the SMF data set, and specifying the SMF record type numbers, see the IBM System Management Facilities documentation.

BMC Software provides sample SAS programs in *hilevel.BBSAMP* to format the information that is recorded to SMF. For a list of the SAS program members that are available in *hilevel.BBSAMP*, see the *MAINVIEW for IP User Guide*.

XSUPP—Exit Suppression

MAINVIEW for IP collects FTP statistics using an IBM-defined exit point and a BMC Software–provided exit. The exit point is activated by requesting SMF logging of type 118 records in the FTP server. The SMF records can be suppressed by the EXIT. To suppress the SMF records, specify the XSUPP parameter.

xxxxINT—Set SMF Recording Interval

This parameter lets you specify how often the SMF record specified by the SMFREC parameter is to be put in the SMF data set. *xxxxINT* is specified as *xxxxINT=nn*. *xxxx* is the abbreviation for the feature and *nn* is the interval in minutes (from 5 to 1440).

For example, to specify that the product should generate the TCP/IP configuration SMF record every 15 minutes, use *CONFINT=15* in your startup parameter list. The product does not record unless the SMFREC parameter is also present in the startup parameter list.

For information about SMF records, setting up the SMF data set, and specifying the SMF record types that may be captured, see the IBM System Management Facilities documentation.

BMC Software provides sample SAS programs in *hilevel.BBSAMP* to format the information that is recorded to SMF. For a list of the SAS program members that are available in *hilevel.BBSAMP*, see the *MAINVIEW for IP User Guide*.

Index

A

- authorization, product 3-4
- AutoCustomization
 - definition 3-2
 - executing TAC steps 3-4

B

- batch authorization 3-4, 3-5
- batch jobs, sample 3-19
- BBPARM data set, member TACTIR00 3-18
- BBSAMP data set 3-5, 3-8
- BBSAMP members
 - sample SAS programs 5-4
 - TACHIS 3-16
 - TACLIB 3-15
 - TACPAS 3-8
 - TACPRM 3-5, 3-10, 3-11
 - TACSEC 3-19
 - TACSNM 3-14

C

- checklists, installation 1-3
- creating the PAS 3-8
- customization steps
 - checklist 1-6
 - executing 3-4
 - panels 3-3

- customizing
 - MAINVIEW 3-6
 - MAINVIEW for IP 3-2, 3-7
 - manually 3-5 to 3-20
 - using AutoCustomization 3-2 to 3-4

D

- data collector, prerequisites 4-2
- data definition statements. *See* DD statements
- data set members
 - TACHIS 3-16
 - TACLIB 3-5, 3-15
 - TACPAS 3-5, 3-8
 - TACPRM 3-5, 3-10, 3-11
 - TACSEC 3-5, 3-19
 - TACSNM 3-5, 3-14
 - TACTIR00 3-18
- data sets
 - BBPARM 3-18
 - BBSAMP 3-5
 - SMF 5-3
- DD statements 3-10, 5-2
- distribution methods 1-2
- distribution tape, contents 1-2
- DNR (domain name resolution)
 - NODNR startup parameter 5-3
 - startup parameter 5-2
- domain name resolution. *See* DNR

E

- exit suppression
 - NOXSUPP startup parameter 5-3
 - XSUPP startup parameter 5-4

F

- FTP (file transfer protocol)
 - data collection 4-3
 - requirements 4-3

G

- generator, installation checklist 1-3

H

historical data set member, TACHIS 3-16

I

input parameters

- AutoCustomization steps 3-4
- creating input parameters 3-10
- creating SNMP parameters 3-13
- DNR 5-2
- manual customization steps 3-5
- NODNR 5-3
- NOXSUPP 5-3
- RESPJOB 5-3
- RESPPORT 5-3
- SMFREC 5-3
- XSUPP 5-4
- xxxxINT 5-4

installation

- checklists for 1-3
- customizing 3-7
- multiple stacks 2-4
- preparing for 1-4
- prerequisites 2-4
- requirements 2-4
- steps 1-5

Installation Checklist Generator 1-3

Internet Protocol. *See* IP

interval recorder data set member, TACTIR00 3-18

IP (Internet Protocol) 2-5

J

JCL (job control language) samples

- BBSAMP 3-5
- TACHIS 3-16
- TACLIB 3-15
- TACPAS 3-8
- TACPRM 3-11, 3-12
- TACSEC 3-19
- TACSNM 3-14

L

libraries

- password 3-4, 3-5, 3-15
- procedure 3-8

M

MAINVIEW Infrastructure PAS 2-4

manual customization 3-5

multiple stacks 2-4

N

NODNR startup parameter 5-3

NOXSUPP startup parameter 5-3

O

online authorization 3-4, 3-5

online environment 3-6

Open Systems Adapter. *See* OSA

OSA (Open Systems Adapter)

- data collection 4-2
- requirements 2-4, 4-2

P

panels, Product Customization Steps 3-3

parameter data set member, TACPRM

- creating input parameters 3-10, 3-11
- manual customization steps 3-5

parameter files, syntax rules 3-10, 5-2

parameters

- creating input parameters 3-10
- creating SNMP parameters 3-13
- DNR 5-2
- input 3-4, 3-5
- NODNR 5-3
- NOXSUPP 5-3
- RESPJOB 5-3
- RESPPORT 5-3
- SMFREC 5-3
- SNMP 3-4, 3-5

parameters (*continued*)

- SSID 3-8
- startup 3-10
- TACTIR00 sample 3-18
- XSUPP 5-4
- xxxxINT 5-4
- PAS (product address space)
 - AutoCustomization steps 3-4
 - creating 3-8
 - data set member, TACPAS 3-5
 - manual customization steps 3-5
- password library
 - AutoCustomization steps 3-4
 - creating 3-15
 - manual customization steps 3-5
- password library data set member, TACLIB
 - AutoCustomization steps 3-4
 - creating 3-15
 - manual customization steps 3-5
- passwords, bypass Product Authorization 3-19
- preparing for product installation 1-4
- prerequisites, installation 2-4
- procedure library 3-8
- product address space. *See* PAS
- product authorization codes, temporary 2-5
- Product Authorization data set member, TACSEC
 - AutoCustomization steps 3-4
 - editing 3-19
 - manual customization steps 3-5
- Product Customization Steps panel 3-3
- program members, SAS 5-4

R

- RACF (Resource Access Control Facility) 2-5
- requirements, FTP 4-3
- requirements, installation 2-4
- requirements, OSA 2-4, 4-2
- requirements, RACF 2-5
- Resource Access Control Facility. *See* RACF
- RESPJOB startup parameter 5-3
- response times
 - RESPJOB startup parameter 5-3
 - RESPPORT startup parameter 5-3
- RESPPORT startup parameter 5-3

S

- sample JCL
 - BBSAMP 3-5
 - TACHIS 3-16
 - TACLIB 3-15
 - TACPAS 3-8
 - TACPRM 3-11, 3-12
 - TACSEC 3-19
 - TACSNM 3-14
- sample parameter, TACTIR00 3-18
- SAS (Statistical Analysis System) programs 5-4
- security facility. *See* Product Authorization data set member, TACSEC
- SHR steps 3-5, 3-6
- SMF (system management facility)
 - configuration 3-10
 - logs 3-10
 - NOXSUPP startup parameter 5-3
 - recording interval parameters 5-4
 - setting record type 5-3
 - SMFREC startup parameter 5-3
 - XSUPP startup parameter 5-4
- SMFREC startup parameter 5-3
- SNMP data set member, TACSNM
 - AutoCustomization steps 3-4
 - creating input parameters 3-14
 - manual customization steps 3-5
- SNMP parameters 3-4, 3-5
- SSID (subsystem ID), subparameter 3-8
- stacks, multiple 2-4
- startup parameters
 - creating 3-13
 - defaults 3-10
 - DNR 5-2
 - NODNR 5-3
 - NOXSUPP 5-3
 - RESPJOB 5-3
 - RESPPORT 5-3
 - SMFREC 5-3
 - using SYSIN DD statements for 3-10
 - XSUPP 5-4
 - xxxxINT 5-4
- startup procedures, creating the PAS 3-8
- statements, data definition 3-10
- steps
 - product customization 1-6
 - product installation 1-5

subsystem ID. *See* SSID
syntax rules, parameter file 3-10, 5-2
SYSIN DD statements 3-10, 5-2
system management facility. *See* SMF

T

TAC steps, executing 3-4
TACHIS member 3-16
TACLIB member 3-5, 3-15
TACPAS member 3-5, 3-8
TACPRM member
 customizing 3-11
 manual customization steps 3-5
 sample parameter files 3-10
TACSEC member 3-5, 3-19
TACSNM member 3-5, 3-14
TACTIR00 member 3-18
tapes
 contents 1-2
 distribution tape contents 1-2
 types 1-2
temporary product authorization codes 2-5

X

XSUPP startup parameter 5-4
xxxxINT startup parameter 5-4

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GOVERNING LAW. This Agreement is governed by the substantive laws in force, without regard to conflict of laws principles: (a) in the State of New York, if you acquired the License in the United States, Puerto Rico, or any country in Central or South America; (b) in the Province of Ontario, if you acquired the License in Canada (subsections (a) and (b) collectively referred to as the "**Americas Region**"); (c) in Singapore, if you acquired the License in Japan, South Korea, Peoples Republic of China, Special Administrative Region of Hong Kong, Republic of China, Philippines, Indonesia, Malaysia, Singapore, India, Australia, New Zealand, or Thailand (collectively, "**Asia Pacific Region**"); or (d) in the Netherlands, if you acquired the License in any other country not described above. The United Nations Convention on Contracts for the International Sale of Goods is specifically disclaimed in its entirety.

ARBITRATION. ANY DISPUTE BETWEEN YOU AND BMC ARISING OUT OF THIS AGREEMENT OR THE BREACH OR ALLEGED BREACH, SHALL BE DETERMINED BY BINDING ARBITRATION CONDUCTED IN ENGLISH. IF THE DISPUTE IS INITIATED IN THE AMERICAS REGION, THE ARBITRATION SHALL BE HELD IN NEW YORK, U.S.A., UNDER THE CURRENT COMMERCIAL OR INTERNATIONAL, AS APPLICABLE, RULES OF THE AMERICAN ARBITRATION ASSOCIATION. IF THE DISPUTE IS INITIATED IN A COUNTRY IN THE ASIA PACIFIC REGION, THE ARBITRATION SHALL BE HELD IN SINGAPORE, SINGAPORE UNDER THE CURRENT UNCITRAL ARBITRATION RULES. IF THE DISPUTE IS INITIATED IN A COUNTRY OUTSIDE OF THE AMERICAS REGION OR ASIA PACIFIC REGION, THE ARBITRATION SHALL BE HELD IN AMSTERDAM, NETHERLANDS UNDER THE CURRENT UNCITRAL ARBITRATION RULES. THE COSTS OF THE ARBITRATION SHALL BE BORNE EQUALLY PENDING THE ARBITRATOR'S AWARD. THE AWARD RENDERED SHALL BE FINAL AND BINDING UPON THE PARTIES AND SHALL NOT BE SUBJECT TO APPEAL TO ANY COURT, AND MAY BE ENFORCED IN ANY COURT OF COMPETENT JURISDICTION. NOTHING IN THIS AGREEMENT SHALL BE DEEMED AS PREVENTING EITHER PARTY FROM SEEKING INJUNCTIVE RELIEF FROM ANY COURT HAVING JURISDICTION OVER THE PARTIES AND THE SUBJECT MATTER OF THE DISPUTE AS NECESSARY TO PROTECT EITHER PARTY'S CONFIDENTIAL INFORMATION,

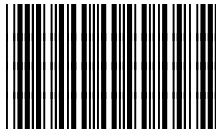
OWNERSHIP, OR ANY OTHER PROPRIETARY RIGHTS. ALL ARBITRATION PROCEEDINGS SHALL BE CONDUCTED IN CONFIDENCE, AND THE PARTY PREVAILING IN ARBITRATION SHALL BE ENTITLED TO RECOVER ITS REASONABLE ATTORNEYS' FEES AND NECESSARY COSTS INCURRED RELATED THERETO FROM THE OTHER PARTY.

U.S. GOVERNMENT RESTRICTED RIGHTS. The Software under this Agreement is "commercial computer software" as that term is described in 48 C.F.R. 252.227-7014(a)(1). If acquired by or on behalf of a civilian agency, the U.S. Government acquires this commercial computer software and/or commercial computer software documentation subject to the terms of this Agreement as specified in 48 C.F.R. 12.212 (Computer Software) and 12.211 (Technical Data) of the Federal Acquisition Regulations ("**FAR**") and its successors. If acquired by or on behalf of any agency within the Department of Defense ("**DOD**"), the U.S. Government acquires this commercial computer software and/or commercial computer software documentation subject to the terms of this Agreement as specified in 48 C.F.R. 227.7202 of the DOD FAR Supplement and its successors.

MISCELLANEOUS TERMS. You agree to pay BMC all amounts owed no later than 30 days from the date of the applicable invoice, unless otherwise provided on the order for the License to the Products. You will pay, or reimburse BMC, for taxes of any kind, including sales, use, duty, tariffs, customs, withholding, property, value-added (VAT), and other similar federal, state or local taxes (other than taxes based on BMC's net income) imposed in connection with the Product and/or the Support. This Agreement constitutes the entire agreement between You and BMC and supersedes any prior or contemporaneous negotiations or agreements, whether oral, written or displayed electronically, concerning the Product and related subject matter. No modification or waiver of any provision hereof will be effective unless made in a writing signed by both BMC and You. You may not assign or transfer this Agreement or a License to a third party without BMC's prior written consent. Should any provision of this Agreement be invalid or unenforceable, the remainder of the provisions will remain in effect. The parties have agreed that this Agreement and the documents related thereto be drawn up in the English language. Les parties exigent que la présente convention ainsi que les documents qui s'y rattachent soient rédigés en anglais.

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Notes



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